

TFM-8000W

*USA Model
Canada Model*



**FM/AM 6-BAND
PORTABLE RADIO**

SPECIFICATIONS

Circuit:	17-transistor, 11-diode, 6-band, AC/DC superheterodyne	Selectivity:	40 dB at ± 10 kHz off-resonance at 1,400 kHz
Frequency Ranges:	PSB 147 ~ 174 MHz (2.04 ~ 1.72 m) FM 87.5 ~ 108 MHz (3.42 ~ 2.78 m) SW3 10 ~ 22 MHz (30 ~ 13.6 m) SW2 4 ~ 10 MHz (75 ~ 30 m) SW1 1.6 ~ 4 MHz (187 ~ 75 m) MW 530 ~ 1,605 kHz (566 ~ 187 m)	Power Output:	2 W maximum
Intermediate Frequencies:	PSB/FM 10.7 MHz SW/MW 455 kHz	Current Drain at No Signal:	PSB/FM 52 mA SW/MW 50 mA
Antennas:	PSB/FM built-in telescopic antenna SW/MW built-in ferrite bar antenna	Speaker:	4" (10 cm) dia PM dynamic, 8 Ω
Sensitivity at 50 mW output:	PSB 1 μ V (0 dB), S/N = 6 dB FM 4 μ V (12 dB), S/N = 30 dB SW3 3.2 μ V (10 dB), S/N = 6 dB SW2 1.6 μ V (4 dB), S/N = 6 dB SW1 1.8 μ V (5 dB), S/N = 6 dB MW 28.2 μ V/m (29 dB/m), S/N = 6 dB	Power Requirements:	6 V DC, four size "D" batteries or 120 V AC, 60 Hz
		Power Consumption:	6 W (AC)
		Dimensions:	11 $\frac{7}{16}$ " (W) x 8 $\frac{1}{16}$ " (H) x 4 $\frac{2}{16}$ " (D) 290 mm (W) x 210 mm (H) x 105 mm (D)
		Weight:	7 lb 1 oz (3.2 kg) with batteries

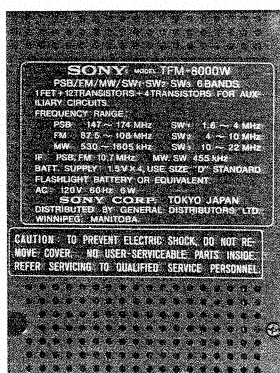
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SERVICE MANUAL

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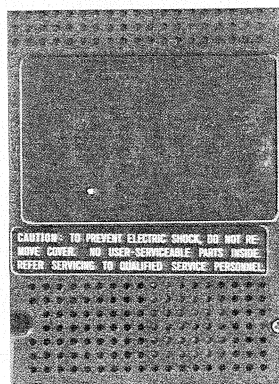
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Model Identification

Canada Model



USA Model



When ordering replacement parts, use PART NUMBERS listed in the Parts List or shown in EXPLODED VIEWS. The Parts List reference numbers should not be used.

Note: All screws in the set are Phillips type (cross recess type) unless otherwise indicated.
(–) : slotted head.

SECTION 1

OUTLINE

1-1. BLOCK DIAGRAM

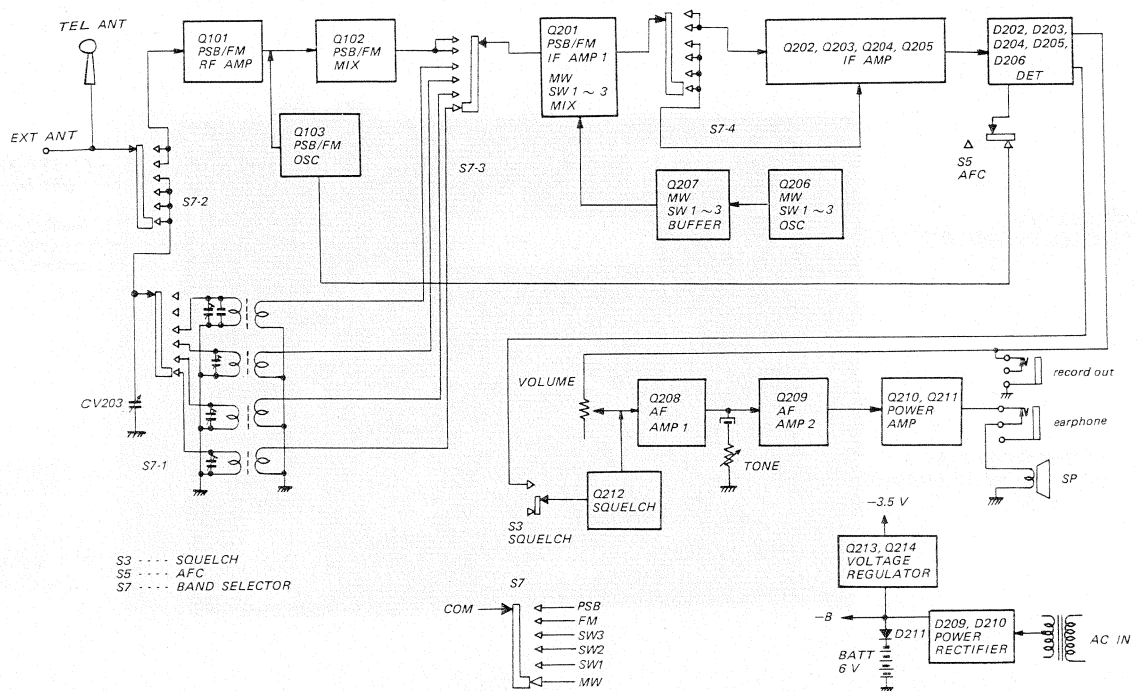


Fig. 1-1

1-2. EXTERNAL VIEW

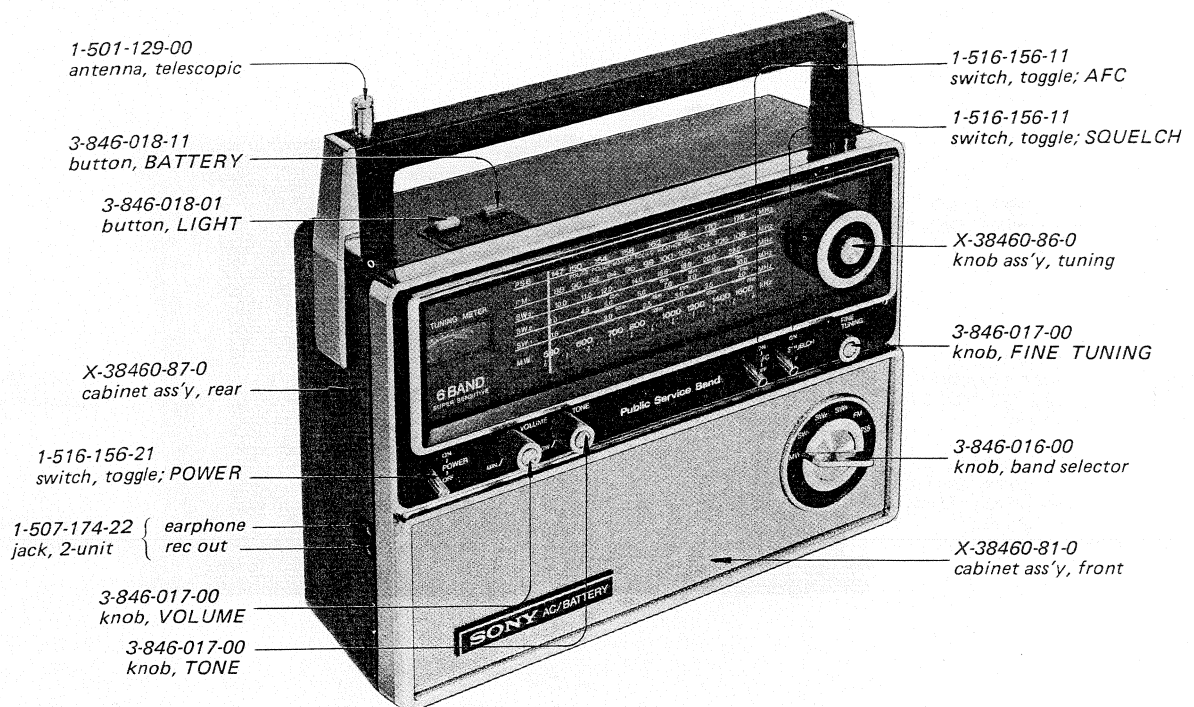


Fig. 1-2

FM-8000W

1-3. INTERNAL VIEW (1)

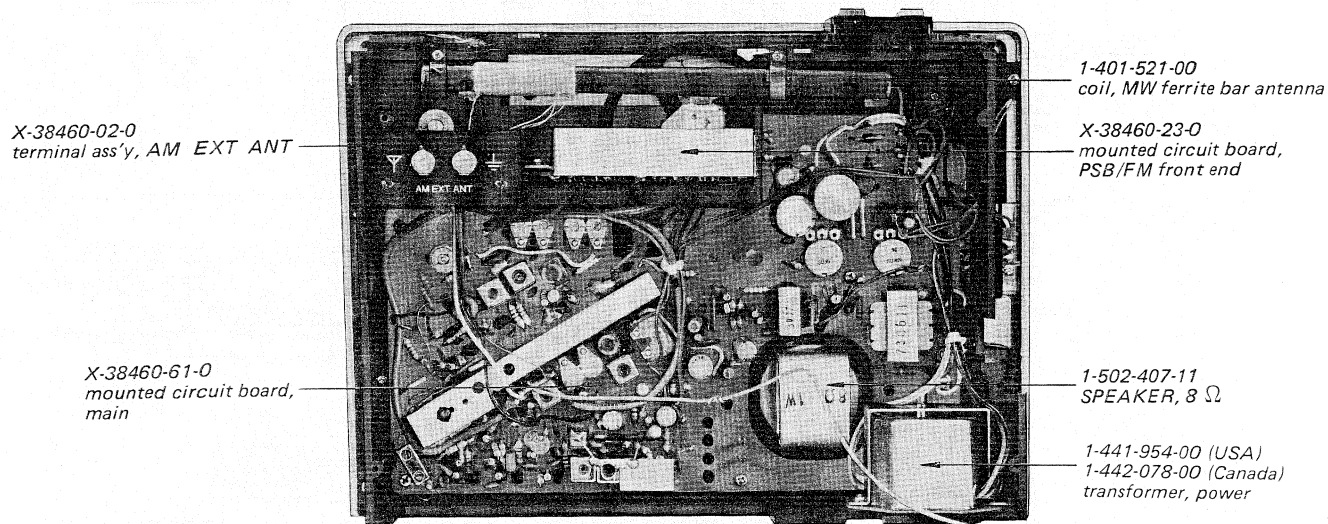


Fig. 1-3

1-4. INTERNAL VIEW (2)

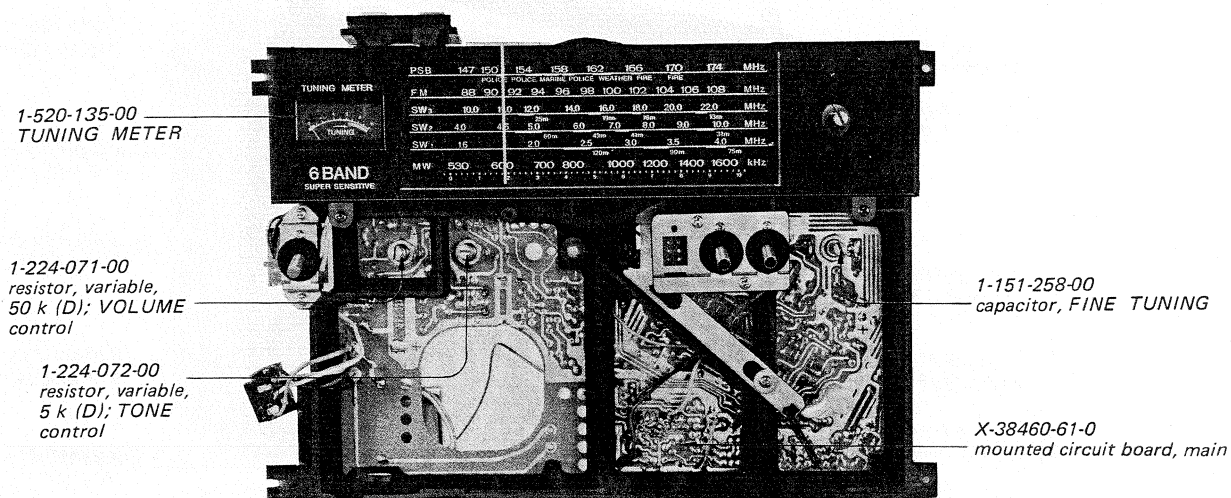


Fig. 1-4

SECTION 2 DISASSEMBLY

2-1. REAR CABINET ASS'Y REMOVAL

Remove the rear cabinet ass'y in the numerical order as shown in Fig. 2-1 and 2-2 below.

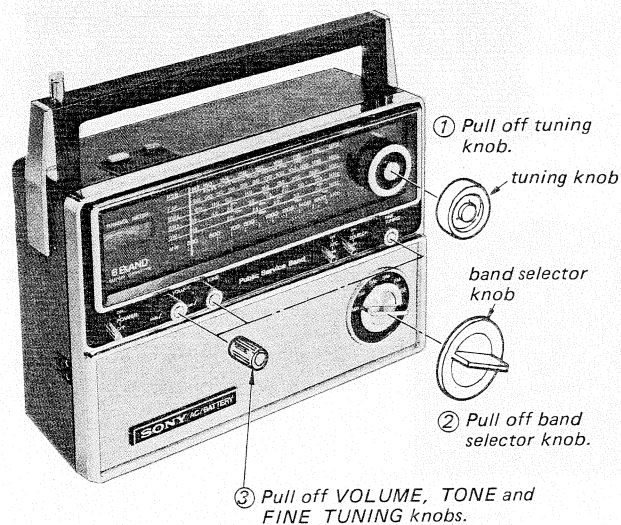


Fig. 2-1

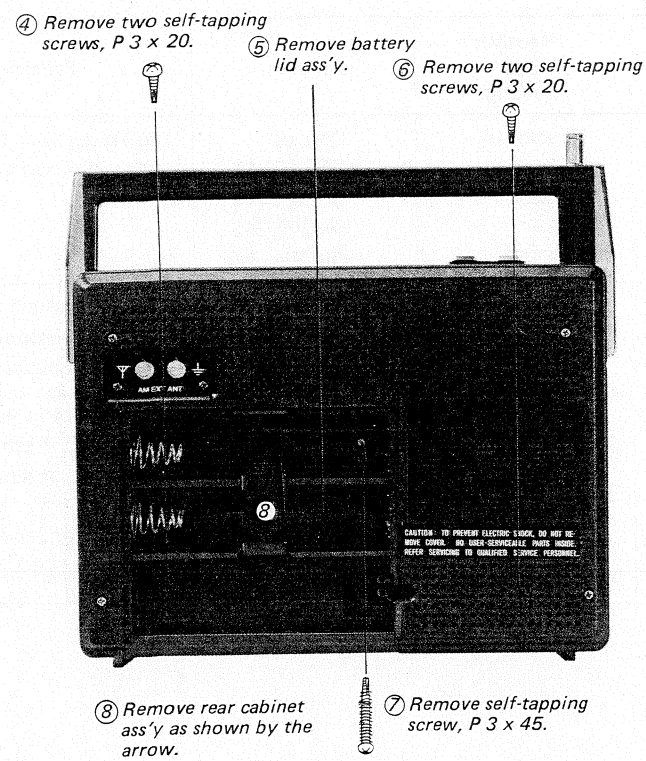


Fig. 2-2

2-2. CHASSIS REMOVAL

Remove the rear cabinet ass'y as shown above and remove the chassis in the numerical order as shown in Fig. 2-3 and 2-4 below.

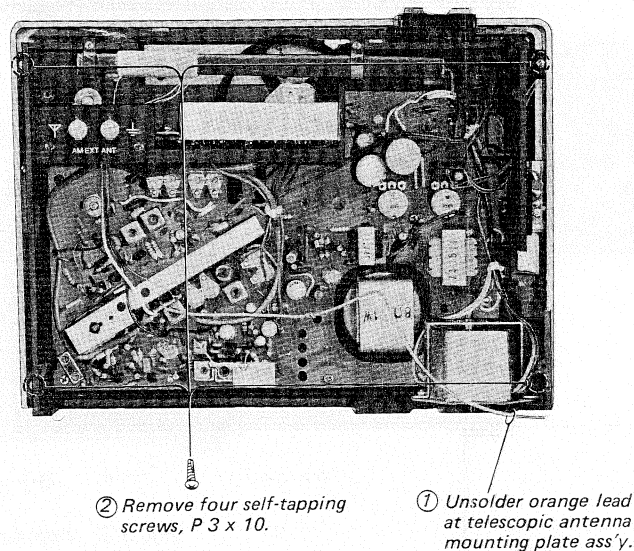


Fig. 2-3

③ Unsolder black and red leads to battery box at printed circuit board.

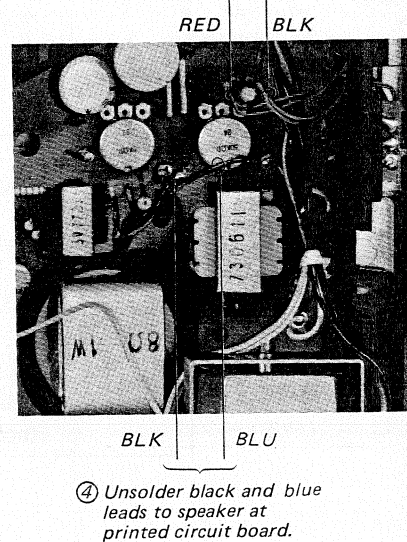


Fig. 2-4

2-3. DIAL CORD STRINGING

1. Make a dial cord assembly as shown in Fig. 2-5 below.

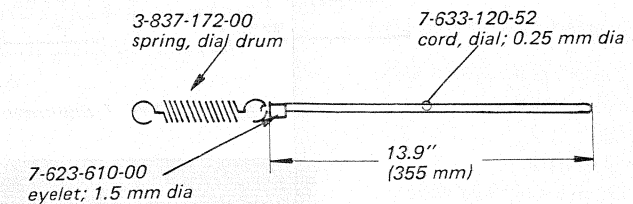


Fig. 2-5

2. String the dial cord in the numerical order as shown in Fig. 2-6 below.

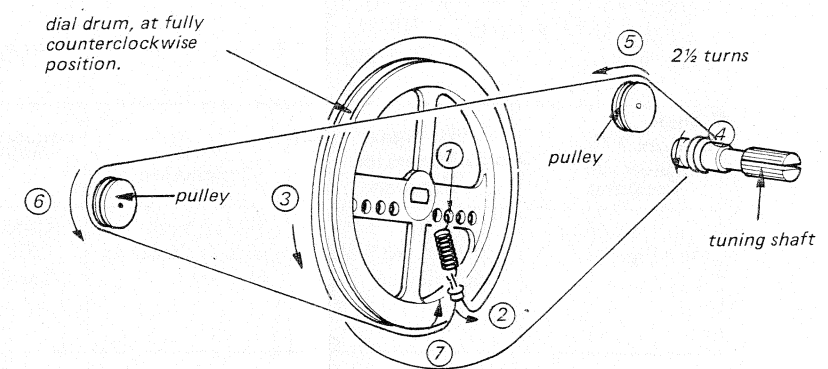


Fig. 2-6

3. Set the dial pointer ass'y so that the dial pointer places on the mark "0" of the logging scale as shown in Fig. 2-7 below, and fix the dial pointer ass'y on the dial cord with a small amount of lock paint as shown in Fig. 2-8 below.

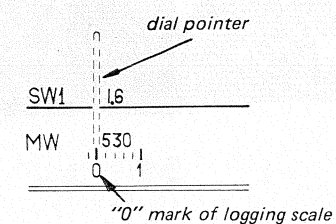


Fig. 2-7.

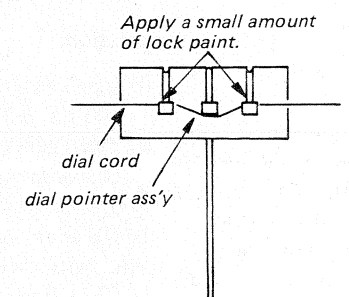


Fig. 2-8

SECTION 3

CIRCUIT ADJUSTMENTS

3-1. AM I-F ALIGNMENT

Applicable for SW1 ~ 3 and MW bands.

Test Equipment/Tools Required

- * Rf signal generator (AM)
- * Lead antenna
- * VOM
- * $8\ \Omega$ resistor
- * Alignment screwdriver

Preparation:

Rf signal generator modulation:
400 Hz, 30 % AM
Rf signal generator output level:
Usable lowest possible
Band Selector: MW
VOLUME control setting: MAX
TONE control setting: HIGH
Test setup: See Fig. 3-1.

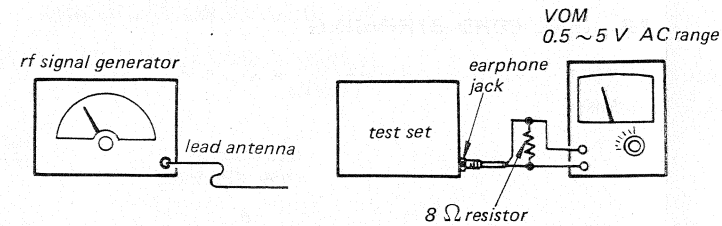


Fig. 3-1. AM i-f alignment setup

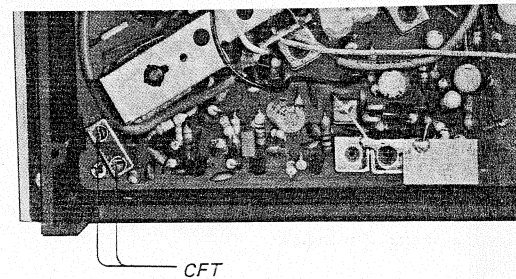


Fig. 3-2. Adjustment locations

Rf Signal Generator Coupling	Rf Signal Generator Frequency	VOM Connection	Adjust	Remarks
Lead antenna See Fig. 3-1.	455 kHz (1 kHz, 30 % AM modulation)	To earphone jack as shown in Fig. 3-1	Cores of CFT See Fig. 3-2	Tuning knob setting: at no signal, no noise position. Adjust for maximum meter reading. Repeat the adjustment two or three times.

3-2. FM I-F ALIGNMENT

Applicable for PSB and FM bands.

Test Equipment/Tools Required

- * Rf signal generator (FM)
- * VOM
- * $8\ \Omega$ resistor
- * Alignment screwdriver
- * $0.01\ \mu\text{F}$ ceramic capacitor

Preparation:

Rf signal generator modulation:
400 Hz, ± 22.5 kHz FM
Rf signal generator output level:
Usable lowest possible
VOLUME control setting: MAX
TONE control setting: HIGH
AFC switch setting: OFF
SQUELCH switch setting: OFF
Test setup:
See Fig. 3-2, Fig. 3-3, Fig. 3-4 and Fig. 3-5.

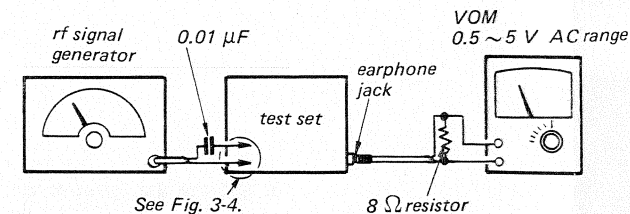


Fig. 3-3. FM i-f alignment setup

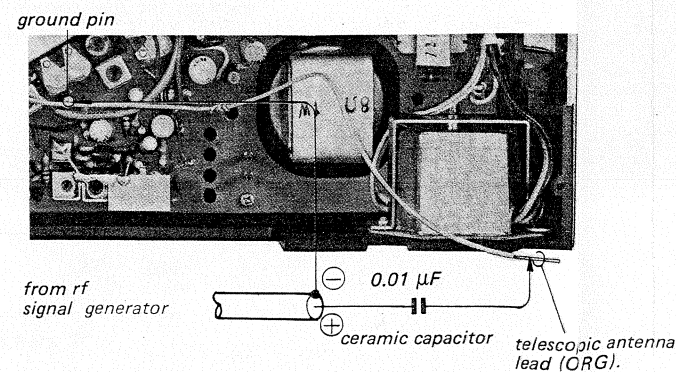


Fig. 3-4. Rf signal generator coupling for FM i-f alignment and PSB/FM/SW 1 ~ 3 frequency coverage and tracking adjustment

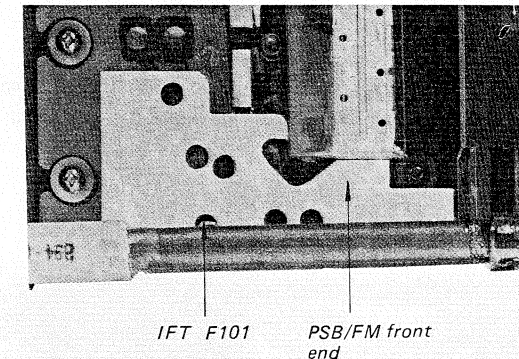


Fig. 3-5. Adjustment location

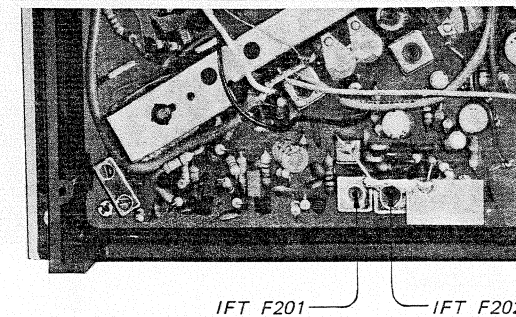


Fig. 3-6. Adjustment locations

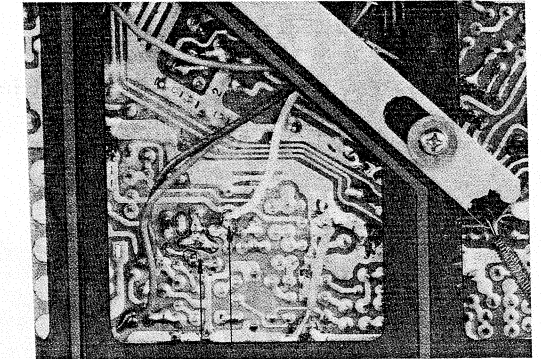


Fig. 3-7. VOM connection for FM i-f alignment step 4

Step	Rf Signal Generator Frequency	Receiver Dial Setting	Adjust	Procedure
1	10.7 MHz with FM modulation	No station, no beating position	Core of IFT F101 IFT F201 See Fig. 3-5 and Fig. 3-6.	Test setup: See Fig. 3-3 and Fig. 3-4. Adjust for maximum meter reading.
2	— ditto —	— ditto —	Rf signal generator frequency	Carefully adjust rf signal generator frequency around 10.7 MHz for maximum meter reading.
3				Repeat steps 1 and 2 two or three times with rf signal generator frequency obtained in step 2.
4	No input signal (noise only)	— ditto —	Core of IFT F202 See Fig. 3-6	Test setup: See Fig. 3-7. Adjust for "0 V DC" meter reading.

3.3. FREQUENCY COVERAGE AND TRACKING ADJUSTMENT

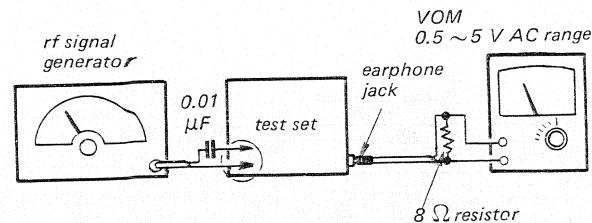


Fig. 3-8. PSB/FM/SW1 ~ SW3 frequency coverage and tracking adjustment setup.

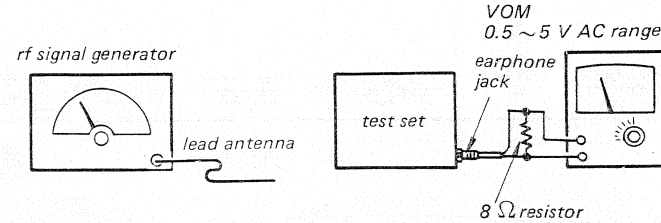


Fig. 3-9. MW frequency coverage and tracking adjustment setup.

Adjustment	Rf Signal Generator Coupling	Rf Signal Generator Frequency	Receiver Dial Setting	Adjust	Remarks
PSB Frequency Coverage	Direct connection See Fig. 3-4. and Fig. 3-8.	145 MHz	Minimum frequency	Core of PSB osc coil L107	Rf signal generator modulation: 400 Hz, ± 22.5 kHz FM Rf signal generator output level: Usable lowest possible. VOM connection: See Fig. 3-8. Band selector: PSB VOLUME control setting: MAX FINE TUNING control setting: Mechanical mid position Adjust for maximum meter reading, ending with CT105 and CT104. Repeat adjustment two or three times. Fix L107 and L105 with wax.
		176 MHz	Maximum frequency	PSB osc trimmer CT105	
PSB Tracking		145 MHz	Minimum frequency	Core of PSB rf coil L105	
		176 MHz	Maximum frequency	PSB rf trimmer CT104 and PSB ant trimmer CT102	
FM Frequency Coverage	Direct connection See Fig. 3-4. and Fig. 3-8.	86.5 MHz	Minimum frequency	Core of FM osc coil L108	Rf signal generator modulation: 400 Hz, ± 22.5 kHz FM Rf signal generator output level: Usable lowest possible. VOM connection: See Fig. 3-8. Band selector: FM VOLUME control setting: MAX FINE TUNING control setting: Mechanical mid position. Adjust for maximum meter reading Repeat adjustment two or three times ending with CT106 and CT103. Fix L108 and L104 with wax.
		109.5 MHz	Maximum frequency	FM osc trimmer CT106	
FM Tracking		86.5 MHz	Minimum frequency	Core of FM rf coil L104	
		109.5 MHz	Maximum frequency	FM rf trimmer CT103 and FM ant trimmer CT101	
MW Frequency Coverage	Lead antenna See Fig. 3-9.	520 kHz	Minimum frequency	Core of MW osc coil L211	Rf signal generator modulation: 400 Hz, 30 % AM Rf signal generator output level: Usable lowest possible. VOM connection: See Fig. 3-9. Band selector: MW VOLUME control setting: MAX Adjust for maximum meter reading. Repeat adjustment two or three times ending with CT204 and CT208. Fix L211 and L207 with wax.
		1,700 kHz	Maximum frequency	MW osc trimmer CT204	
MW Tracking		620 kHz	Tune in 620 kHz signal	Position of MW ant coil L207	
		1,400 kHz	Tune in 1,400 kHz signal	MW ant trimmer CT208	

Adjustment	Rf Signal Generator Coupling	Rf Signal Generator Frequency	Receiver Dial Setting	Adjust	Remarks
SW1 Frequency Coverage	Direct connection See Fig. 3-4. and Fig. 3-8.	1.55 MHz	Minimum frequency	Core of SW1 osc coil L210	Rf signal generator modulation: 400 Hz, 30 % AM Rf signal generator output level: Usable lowest possible. VOM connection: See Fig. 3-8. Band selector: SW1 VOLUME control setting: MAX FINE TUNING control setting: Mechanical mid position Adjust for maximum meter reading. Repeat adjustment two or three times ending with CT203 and CT207. Fix L210 and L206 with wax.
		4.1 MHz	Maximum frequency	SW1 osc trimmer CT203	
		1.55 MHz	Minimum frequency	Core of SW1 ant coil L206	
SW1 Tracking		4.1 MHz	Maximum frequency	SW1 ant trimmer CT207	
SW2 Frequency Coverage	Direct connection See Fig. 3-4. and Fig. 3-8.	3.9 MHz	Minimum frequency	Core of SW2 osc coil L209	Rf signal generator modulation: 400 Hz, 30 % AM Rf signal generator output level: Usable lowest possible. VOM connection: See Fig. 3-8. Band selector: SW2 VOLUME control setting: MAX FINE TUNING control setting: Mechanical mid position Adjust for maximum meter reading Repeat adjustment two or three times ending with CT202 and CT206. Fix L209 and L205 with wax.
		10.3 MHz	Maximum frequency	SW2 osc trimmer CT202	
SW2 Tracking		3.9 MHz	Minimum frequency	Core of SW2 ant coil L205	
		10.3 MHz	Maximum frequency	SW2 ant trimmer CT206	
SW3 Frequency Coverage	Direct connection See Fig. 3-4. and Fig. 3-8.	9.5 MHz	Minimum frequency	Core of SW3 osc coil L208	Rf signal generator modulation: 400 Hz, 30 % AM Rf signal generator output level: Usable lowest possible. VOM connection: See Fig. 3-8. Band selector: SW3 VOLUME control setting: MAX FINE TUNING control setting: Mechanical mid position Adjust for maximum meter reading Repeat adjustment two or three times ending with CT201 and CT205. Fix L208 and L204 with wax.
		23 MHz	Maximum frequency	SW3 osc trimmer CT201	
SW3 Tracking		9.5 MHz	Minimum frequency	Core of SW3 ant coil L204	
		23 MHz	Maximum frequency	SW3 ant trimmer CT205	

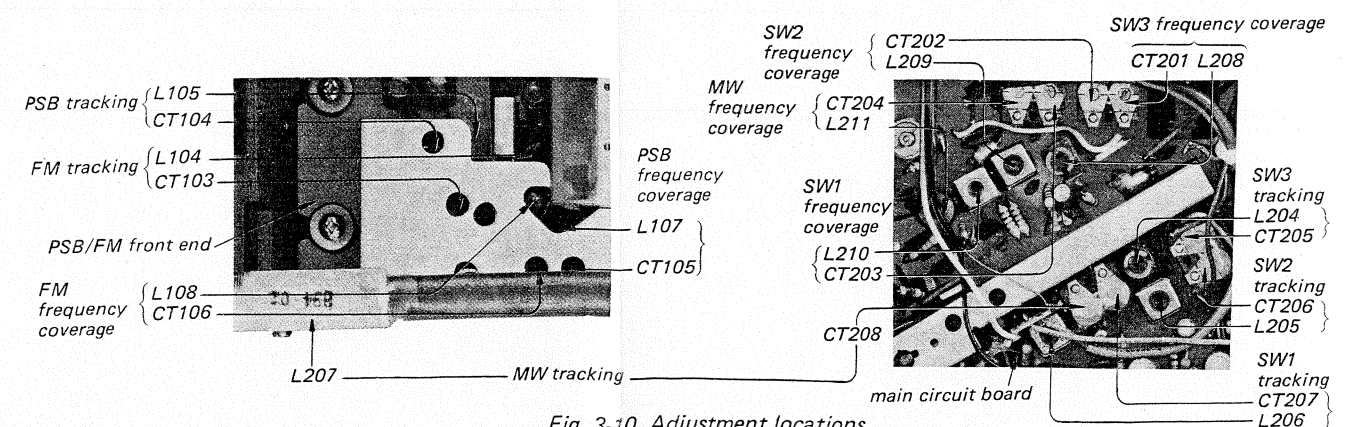
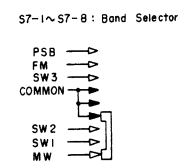
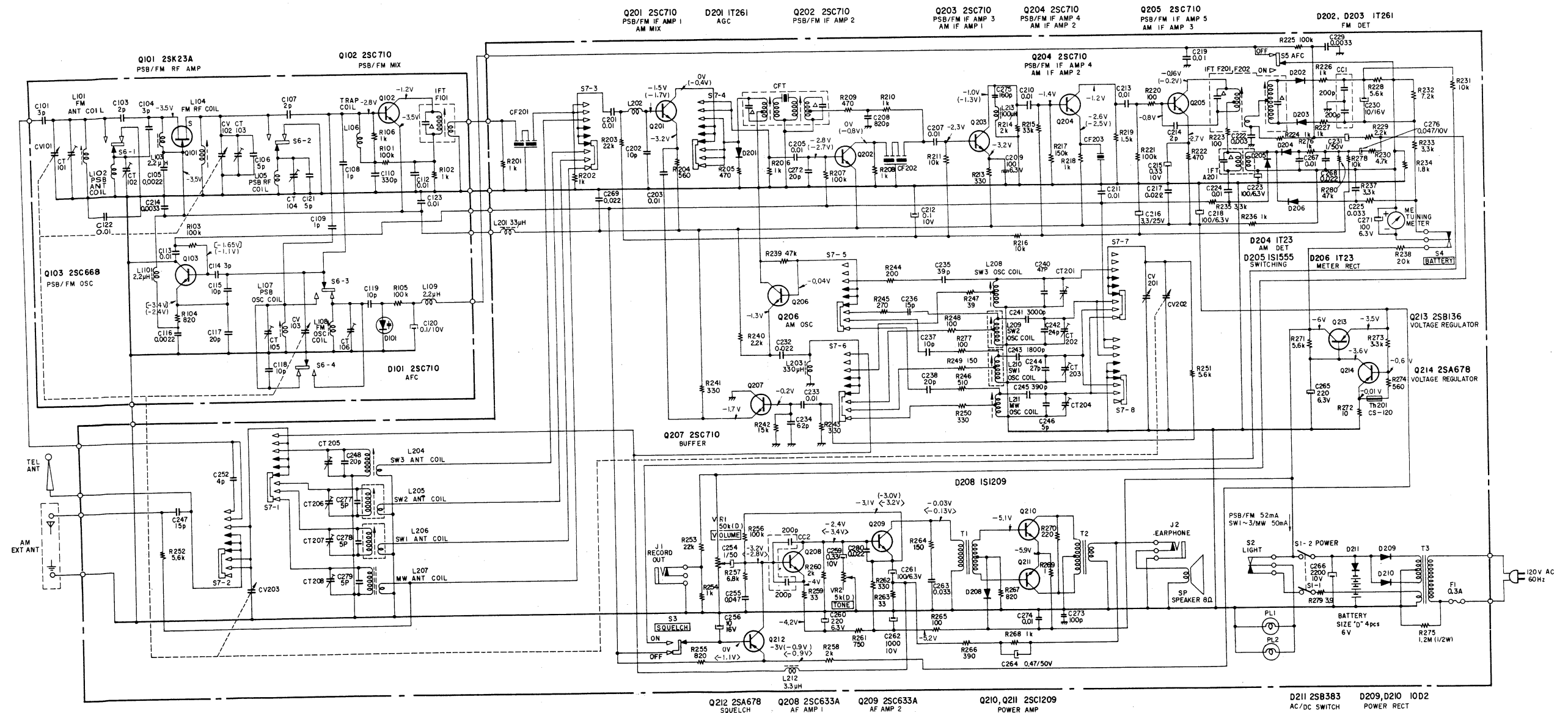


Fig. 3-10. Adjustment locations

TFM-8000W TFM-8000W

SECTION 4 SCHEMATIC AND MOUNTING DIAGRAMS

4.1. SCHEMATIC DIAGRAM



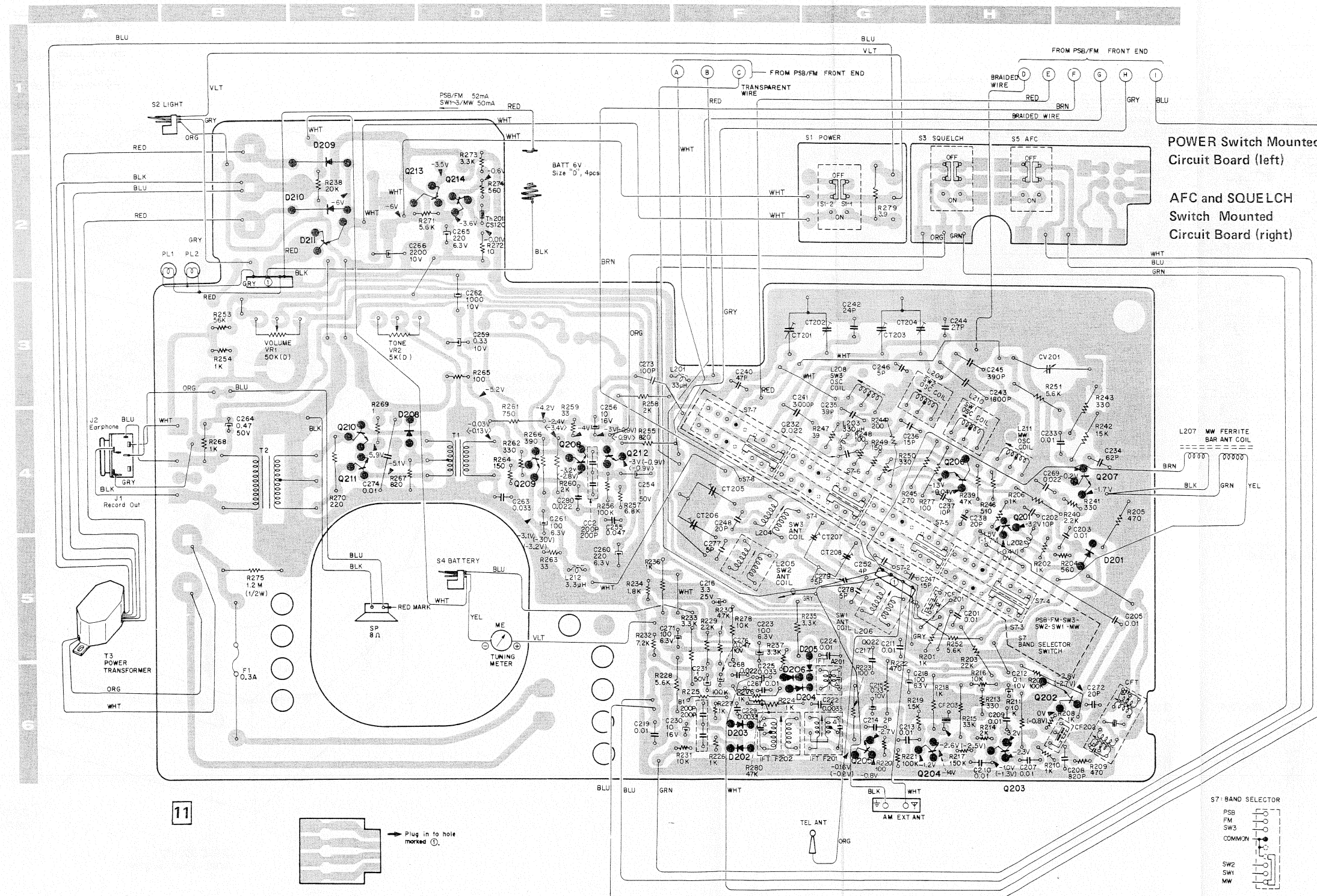
- Note: 1. All capacitance values are in μF and all resistance values are in Ω unless otherwise noted.
2. All voltages are measured with reference to battery positive terminal with a VOM (20 $\text{k}\Omega/\text{V}$ DC) with no signal received. The values in () are measured with band selector set to FM, in [] set to PSB, < > with SQUELCH control set to ON position, others are common.

- Variations may be noted due to normal production tolerances.
3. All currents measured with a VOM with no signal received.
4. Capacitors marked with Δ are built in i-f transformers, and ceramic filter transformer.

Fig. 4-1.

TFM-8000W TFM-8000W

4-2. MOUNTING DIAGRAM (1) — Main Circuit Board — — Conductor Side —

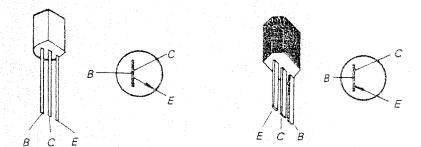


Transistor Location

Q201: 4H	Q208: 4E
Q202: 6I	Q209: 4D
Q203: 6H	Q210: 4C
Q204: 6H	Q211: 4C
Q205: 6G	Q212: 4E
Q206: 4H	Q213: 2D
Q207: 4I	Q214: 2D

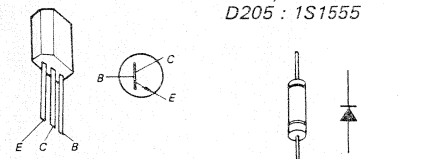
Q201 ~ Q207 : 2SC710

Q214 : 2SA678



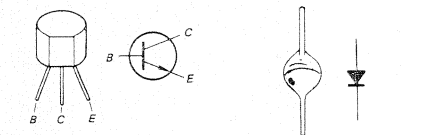
Q208, Q209 : 2SC633A

D201 ~ D203 : 1T261
D204, D206 : 1T23
D205 : 1S1555



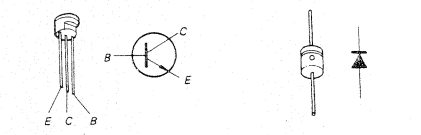
Q210, Q211 : 2SC1209

D208 : 1S1209



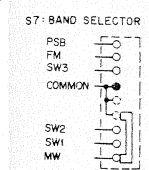
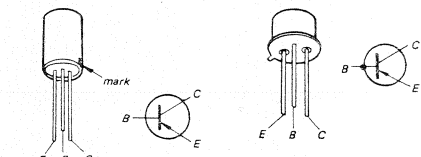
Q212 : 2SC678

D209, D210 : 10D2



Q213 : 2SB136

D211 : 2SB383



SECTION 5 PACKING AND EXPLODED VIEWS

4.3. MOUNTING DIAGRAM (2) – PSB/FM Front End –
– Conductor Side –

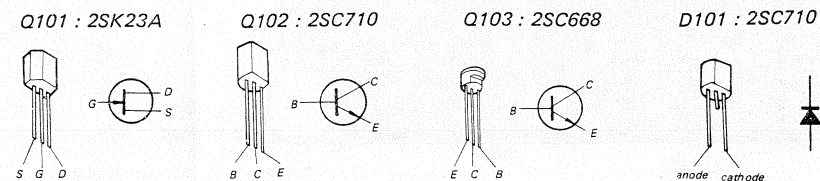
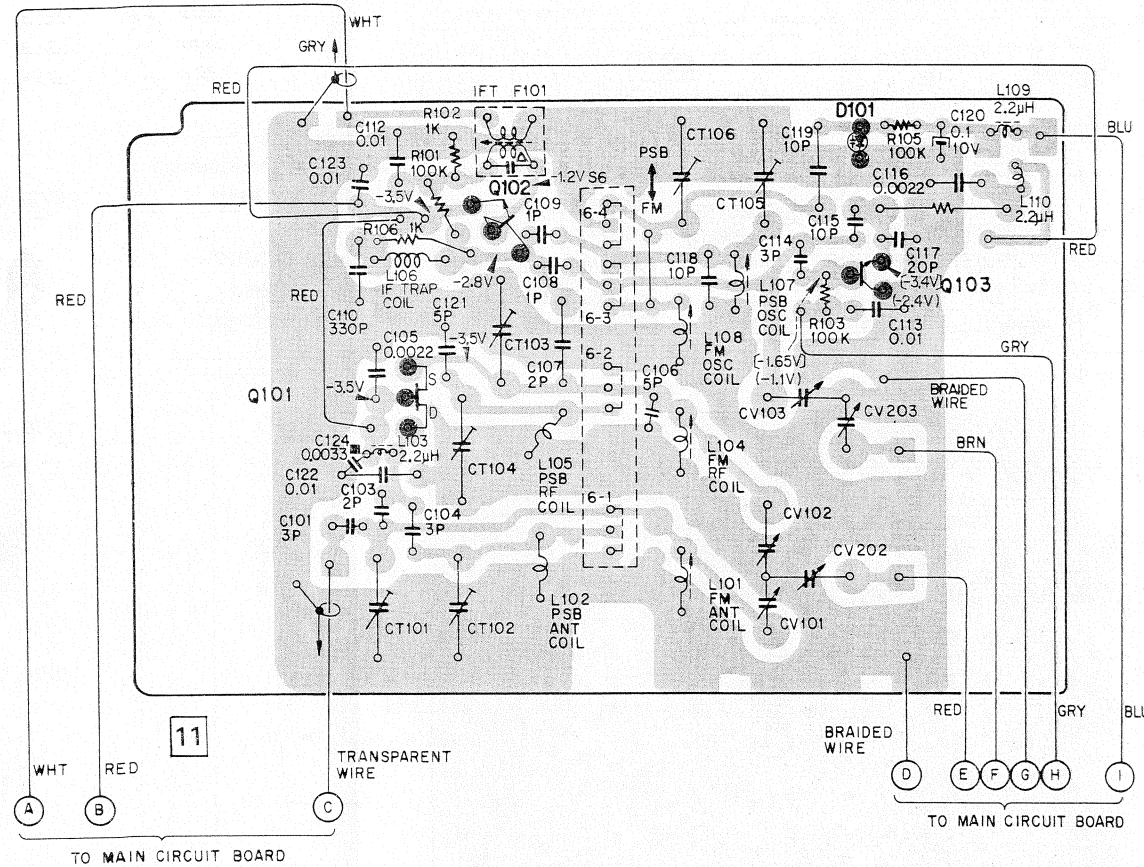


Fig. 4-3.

5.1. PACKING

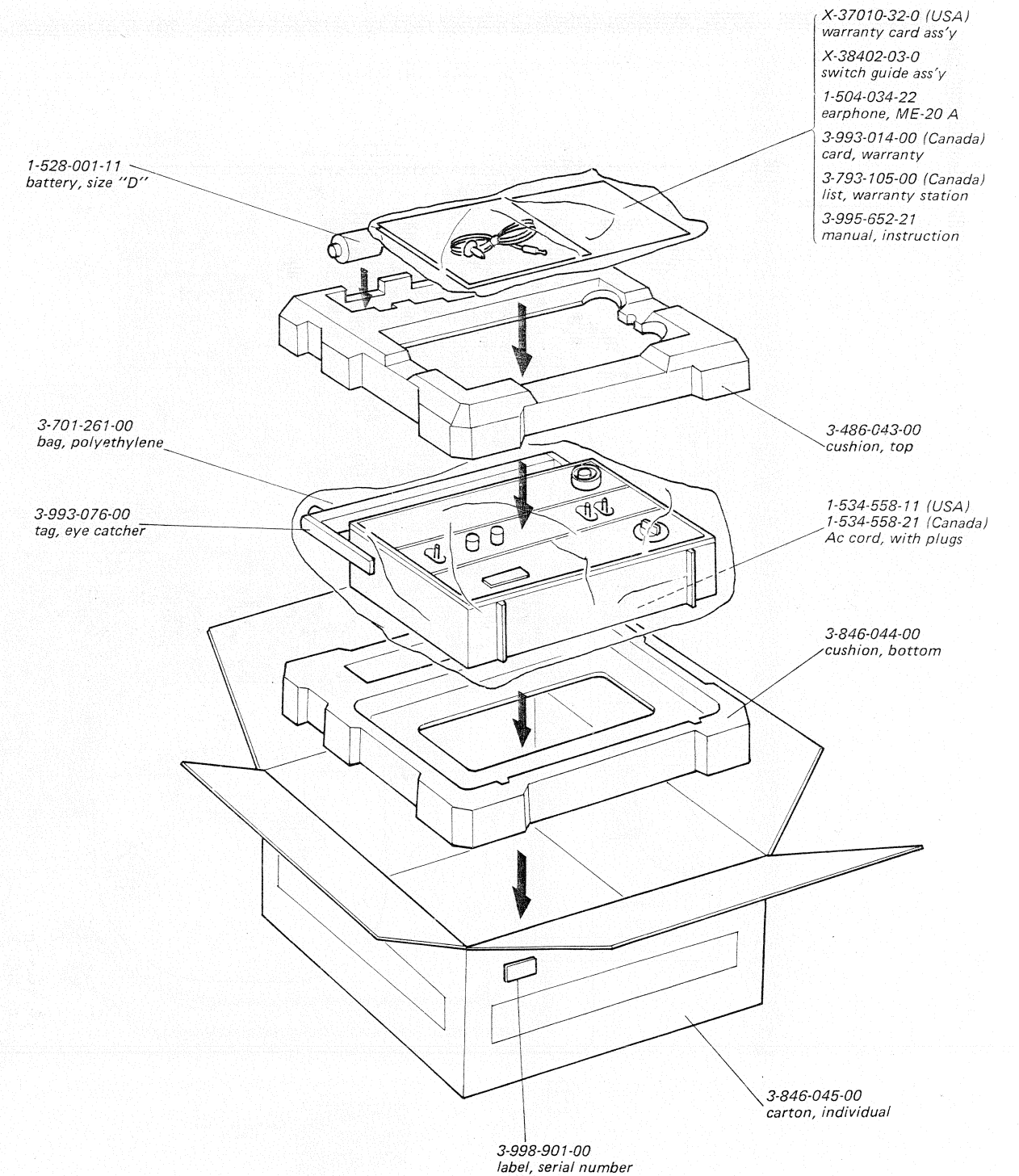


Fig. 5-1.

TFM-8000W TFM-8000W

5-2. EXPLODED VIEW (1)

Parts without part numbers and names are not available.

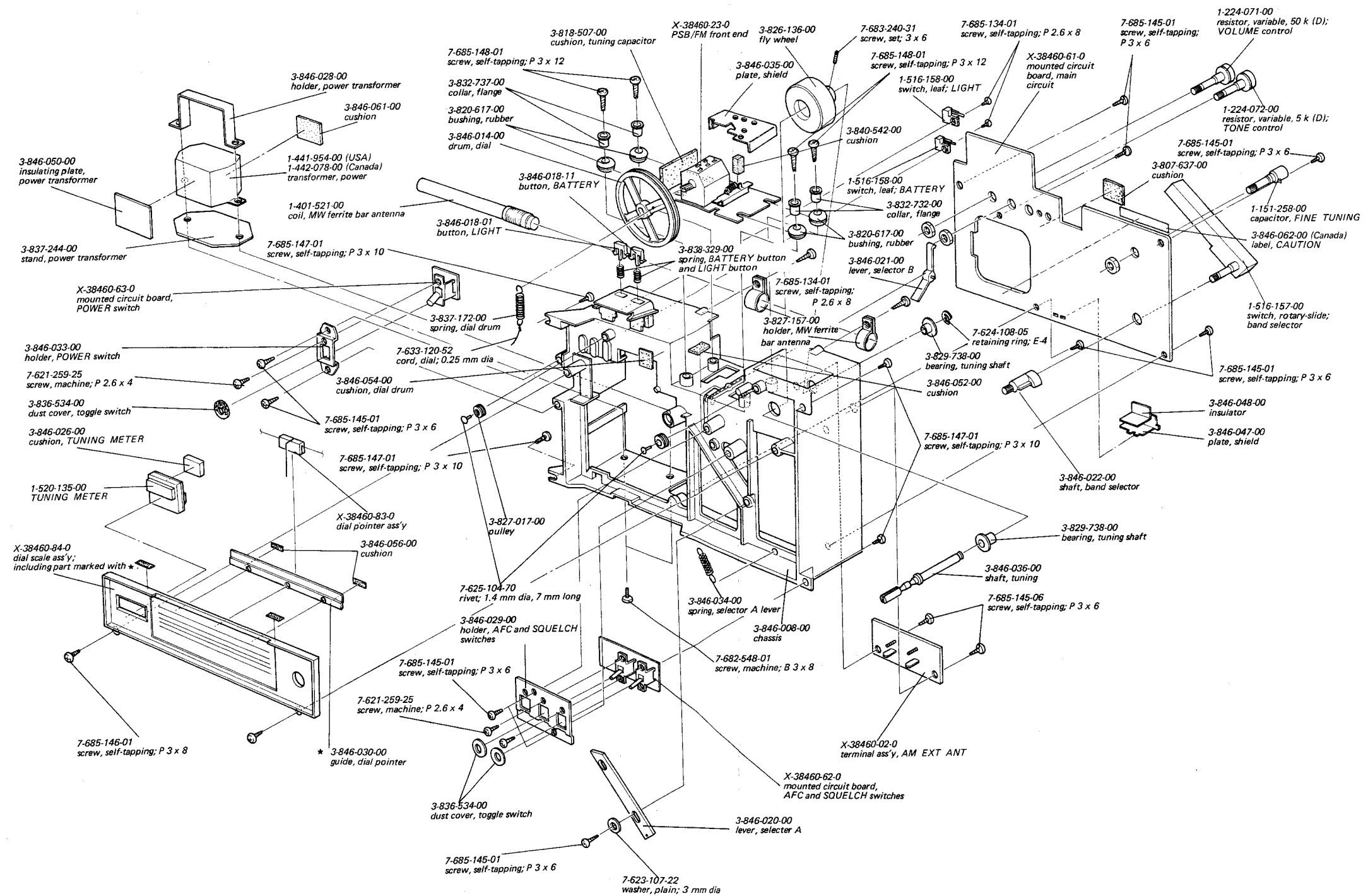


Fig. 5-2.

TFM-8000W TFM-8000W

5-3. EXPLODED VIEW (2)

Parts without part numbers and names are not available.

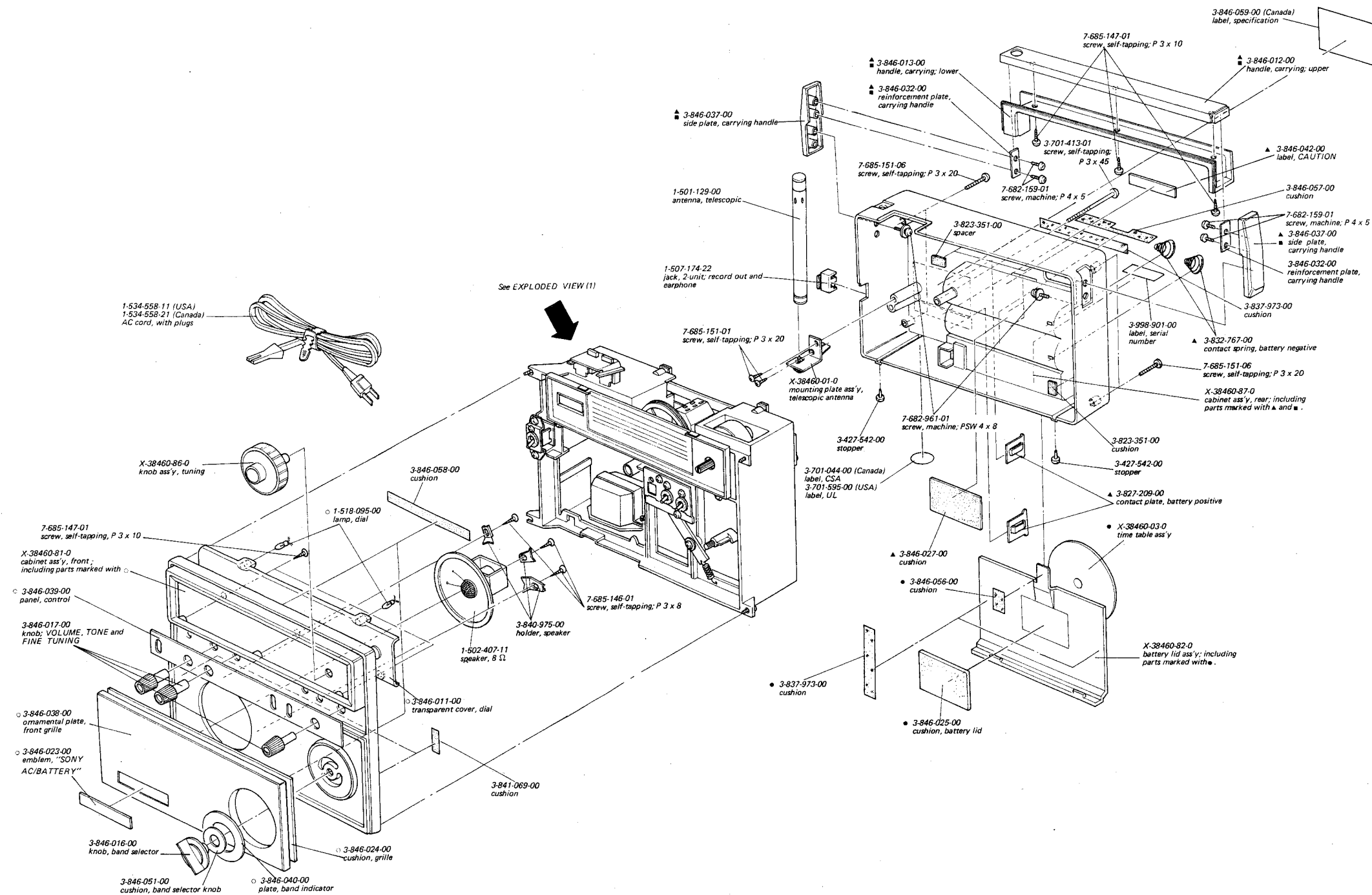


Fig. 5-3.

Note: Parts marked with ■ are included in carrying handle ass'y, Part No. X-38460-85-0.

SECTION 6

ELECTRICAL PARTS LIST

<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>	<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>
MOUNTED CIRCUIT BOARDS					
	X-38460-23-0	mounted circuit board, PSB/FM front end	L108	1-405-562-00	coil, FM osc
	X-38460-61-0	mounted circuit board, main circuit	L109	1-407-182-11	2.2 μ H, micro inductor
	X-38460-62-0	mounted circuit board, SQUELCH and AFC switches	L110	1-407-182-11	2.2 μ H, micro inductor
	X-38460-63-0	mounted circuit board, POWER switch	L201	1-407-163-11	33 μ H, micro inductor
SEMICONDUCTORS			L202	1-401-201-00	coil, low pass filter
Q101		transistor 2SK23A	L203	1-407-175-11	330 μ H, micro inductor
Q102		transistor 2SC710	L204	1-401-524-00	coil, SW3 ant
Q103		transistor 2SC668	L205	1-401-523-00	coil, SW2 ant
Q201		transistor 2SC710	L206	1-401-525-00	coil, SW1 ant
Q202		transistor 2SC710	L207	1-401-521-00	coil, MW ferrite bar antenna
Q203		transistor 2SC710	L208	1-405-561-00	coil, SW3 osc
Q204		transistor 2SC710	L209	1-405-560-00	coil, SW2 osc
Q205		transistor 2SC710	L210	1-405-559-00	coil, SW1 osc
Q206		transistor 2SC710	L211	1-405-558-00	coil, MW osc
Q207		transistor 2SC710	L212	1-407-184-11	3.3 μ H, micro inductor
Q208		transistor 2SC633A	L213	1-407-169-11	100 μ H, micro inductor
Q209		transistor 2SC633A	CFT	1-403-165-15	ceramic filter transformer, AM i-f
Q210		transistor 2SC1209	CF201	1-527-184-00	ceramic filter, FM i-f
Q211		transistor 2SC1209	CF202	1-527-184-00	ceramic filter, FM i-f
Q212		transistor 2SC678	CF203	1-403-154-00	ceramic filter
Q213		transistor 2SB136	IFT A201	1-403-137-00	transformer, MW i-f
Q214		transistor 2SA678	IFT F101	1-403-242-31	transformer, FM i-f
D101		diode 2SC710	IFT F201	1-403-287-11	transformer, FM discriminator
D201		diode 1T261	IFT F202	1-403-287-21	transformer, FM discriminator
D202		diode 1T261	T1	1-423-077-00	transformer, driver
D203		diode 1T261	T2	1-427-306-00	transformer, output
D204		diode 1T23	T3	1-441-954-00	transformer, power (USA)
D205		diode 1S1555		1-442-078-00	transformer, power (Canada)
D206		diode 1T23	CAPACITORS		
D207		-----	All fixed capacitors are ceramic type expressed in μ F except as specified with p, which means μ F.		
D208		diode 1S1209	C101	1-102-940-11	3 p
D209		diode 10D2	C102		-----
D210		diode 10D2	C103	1-102-939-11	2 p
D211		diode 2SB383	C104	1-102-940-11	3 p
Th201	1-800-192-11	thermistor CS-120	C105	1-102-100-11	0.0022
COILS AND TRANSFORMERS			C106	1-102-942-11	5 p
L101	1-401-522-00	coil, FM ant	C107	1-102-939-11	2 p
L102	1-420-813-00	coil, PSB ant	C108	1-102-938-11	1 p
L103	1-407-182-11	2.2 μ H, micro inductor	C109	1-102-938-11	1 p
L104	1-401-522-00	coil, FM rf	C110	1-102-832-11	330 p
L105	1-420-813-00	coil, PSB rf	C111		-----
L106	1-401-454-00	coil, i-f trap	C112	1-101-923-11	0.01
L107	1-405-563-00	coil, PSB osc	C113	1-101-923-11	0.01
			C114	1-102-743-11	3 p
			C115	1-101-999-11	10 p

FM-8000W

<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>		
C116	1-102-100-11	0.0022		
C117	1-102-801-11	20 p		
C118	1-102-947-11	10 p		
C119	1-101-999-11	10 p		
C120	1-127-019-11	0.1	10 V	solid aluminum
C121	1-102-942-11	5 p		
C122	1-101-923-11	0.01		
C123	1-101-923-11	0.01		
C124	1-102-101-11	0.0033		
C201	1-101-923-11	0.01		
C202	1-102-947-11	10 p		
C203	1-101-118-11	0.01		
C204		-----		
C205	1-101-923-11	0.01		
C206		-----		
C207	1-101-923-11	0.01		
C208	1-102-117-11	820 p		
C209	1-121-413-11	100	6.3 V	electrolytic
C210	1-101-923-11	0.01		
C211	1-101-923-11	0.01		
C212	1-127-019-11	0.1	10 V	solid aluminum
C213	1-101-923-11	0.01		
C214	1-102-935-11	2 p		
C215	1-127-021-11	0.33	10 V	solid aluminum
C216	1-121-392-11	3.3	25 V	electrolytic
C217	1-101-924-11	0.022		
C218	1-121-413-11	100	6.3 V	electrolytic
C219	1-101-923-11	0.01		
C220		-----		
C221		-----		
C222	1-105-827-12	0.0033		mylar
C223	1-121-413-11	100	6.3 V	electrolytic
C224	1-105-833-12	0.01		mylar
C225	1-105-839-12	0.033		mylar
C226		-----		
C227		-----		
C228		-----		
C229	1-105-827-12	0.0033		mylar
C230	1-121-651-11	10	16 V	electrolytic
C231	1-121-391-11	1	50 V	electrolytic
C232	1-105-837-12	0.022		mylar
C233	1-101-923-11	0.01		
C234	1-101-886-11	62 p		
C235	1-102-965-11	39 p		
C236	1-102-951-11	15 p		
C237	1-102-947-11	10 p		
C238	1-102-958-11	20 p		
C239		-----		
C240	1-102-728-11	47 p		
C241	1-103-636-11	3,000 p		polystyrene
C242	1-102-802-11	24 p		
C243	1-103-631-11	1,800 p		polystyrene
C244	1-102-803-11	27 p		

<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>		
C245	1-107-232-11	390 p		silvered mica
C246	1-101-997-11	5 p		
C247	1-102-951-11	15 p		
C248	1-102-958-11	20 p		
C249		-----		
C250		-----		
C251		-----		
C252	1-102-941-11	4 p		
C253		-----		
C254	1-121-391-11	1	50 V	electrolytic
C255	1-105-841-12	0.047		mylar
C256	1-121-651-11	10	16 V	electrolytic
C257		-----		
C258		-----		
C259	1-127-021-11	0.33	10 V	solid aluminum
C260	1-121-419-11	220	6.3 V	electrolytic
C261	1-121-413-11	100	6.3 V	electrolytic
C262	1-121-736-11	1,000	10 V	electrolytic
C263	1-105-839-12	0.033		mylar
C264	1-121-726-11	0.47	50 V	electrolytic
C265	1-121-419-11	220	6.3 V	electrolytic
C266	1-121-659-11	2,200	10 V	electrolytic
C267	1-105-833-12	0.01		mylar
C268	1-105-837-12	0.022		mylar
C269	1-101-924-11	0.022		
C270		-----		
C271	1-121-413-11	100	6.3 V	electrolytic
C272	1-102-801-11	20 p		
C273	1-102-975-11	100 p		
C274	1-101-923-11	0.01		
C275	1-107-136-11	160 p		silvered mica
C276	1-127-018-11	0.047	10 V	solid aluminum
C277	1-102-942-11	5 p		
C278	1-102-942-11	5 p		
C279	1-102-942-11	5 p		
C280	1-105-873-11	0.022		mylar
CC1	1-102-255-11	encapsulated component (200 p + 200 p)		
CC2	1-102-255-11	encapsulated component (200 p + 200 p)		
CT101	1-141-097-21	capacitor, trimmer		
CT102	1-141-097-21	capacitor, trimmer		
CT103	1-141-097-21	capacitor, trimmer		
CT104	1-141-097-21	capacitor, trimmer		
CT105	1-141-097-21	capacitor, trimmer		
CT106	1-141-097-21	capacitor, trimmer		
CT201- CT202	1-141-011-21	capacitor, trimmer; 2-unit		
CT203- CT204	1-141-011-21	capacitor, trimmer; 2-unit		
CT205- CT206	1-141-011-21	capacitor, trimmer; 2-unit		
CT207- CT208	1-141-011-21	capacitor, trimmer; 2-unit		

<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>
CV101- CV103 CV202- CV203/	1-15 1-257-00	capacitor, tuning
CV201	1-15 1-258-00	capacitor, FINE TUNING

RESISTORS

All fixed resistors are in Ω , $\pm 5\%$, $\frac{1}{4}W$ carbon film type unless otherwise specified.

R101	1-242-721-11	100 k
R102	1-242-673-11	1 k
R103	1-242-721-11	100 k
R104	1-244-671-11	820
R105	1-242-721-11	100 k
R106	1-244-673-11	1 k

R201	1-242-673-11	1 k
R202	1-242-673-11	1 k
R203	1-244-705-11	22 k
R204	1-242-667-11	560
R205	1-244-665-11	470
R206	1-242-673-11	1 k
R207	1-244-721-11	100 k
R208	1-242-673-11	1 k
R209	1-242-665-11	470
R210	1-242-673-11	1 k
R211	1-244-697-11	10 k

R212	-----	
R213	1-242-661-11	330
R214	1-242-680-11	2 k
R215	1-244-709-11	33 k
R216	1-242-697-11	10 k
R217	1-242-725-11	150 k
R218	1-244-673-11	1 k
R219	1-242-677-11	1.5 k
R220	1-242-649-11	100
R221	1-242-721-11	100 k
R222	1-244-665-11	470
R223	1-242-649-11	100
R224	1-244-673-11	1 k
R225	1-242-721-11	100 k
R226	1-242-673-11	1 k
R227	1-242-673-11	1 k
R228	1-244-691-11	5.6 k
R229	1-242-681-11	2.2 k
R230	1-244-689-11	4.7 k
R231	1-242-697-11	10 k
R232	1-242-694-11	7.5 k
R233	1-244-685-11	3.3 k
R234	1-242-679-11	1.8 k
R235	1-242-685-11	3.3 k
R236	1-242-673-11	1 k

<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>
R237	1-242-685-11	3.3 k
R238	1-242-704-11	20 k
R239	1-242-713-11	47 k
R240	1-244-681-11	2.2 k
R241	1-242-661-11	330
R242	1-244-701-11	15 k
R243	1-244-661-11	330
R244	1-242-656-11	200
R245	1-244-659-11	270
R246	1-242-666-11	510
R247	1-242-639-11	39
R248	1-242-649-11	100
R249	1-242-653-11	150
R250	1-242-661-11	330
R251	1-242-691-11	5.6 k
R252	1-242-691-11	5.6 k
R253	1-242-715-11	56 k
R254	1-242-673-11	1 k
R255	1-242-671-11	820
R256	1-242-721-11	100 k
R257	1-242-693-11	6.8 k
R258	1-244-680-11	2 k
R259	1-242-637-11	33
R260	1-244-680-11	2 k
R261	1-244-670-11	750
R262	1-242-661-11	330
R263	1-242-637-11	33
R264	1-242-653-11	150
R265	1-242-649-11	100
R266	1-244-663-11	390
R267	1-242-671-11	820
R268	1-242-673-11	1 k
R269	1-244-801-11	1
R270	1-244-657-11	220
R271	1-244-691-11	5.6 k
R272	1-242-625-11	10
R273	1-242-685-11	3.3 k
R274	1-242-667-11	560
R275	1-202-647-11	1.2 M $\frac{1}{2} W$ composition
R276	1-242-673-11	1 k
R277	1-244-649-11	100
R278	1-244-697-11	10 k
R279	1-244-615-11	3.9
R280	1-244-713-11	47 k

VR1	1-224-071-00	resistor, variable, 50 k (D); VOLUME control
VR2	1-224-072-00	resistor, variable, 5 k (D); TONE control





















MISCELLANEOUS

TEL ANT1	1-501-129-00	antenna, telescopic
SP	1-502-407-11	speaker, 8 Ω
J1-J2	1-507-174-22	jack, 2-unit; record out and earphone

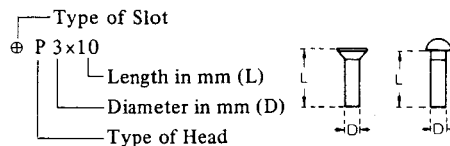
FM-8000W

<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>	<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>
S1	1-516-156-21	switch, toggle; POWER	PL1	1-518-095-00	lamp, dial
S2	1-516-158-00	switch, leaf; LIGHT	PL2	1-518-095-00	lamp, dial
S3	1-516-156-11	switch, toggle; SQUELCH	ME	1-520-135-00	TUNING METER
S4	1-516-158-00	switch, leaf; BATTERY	F1	1-532-261-11	fuse, 0.3 A
S5	1-516-156-11	switch, toggle; AFC		1-534-558-11	Ac cord, with plugs (USA)
S6	1-514-453-21	switch, slide; PSB/FM band selector		1-534-558-21	Ac cord, with plugs (Canada)
S7	1-516-157-00	switch, rotary-slide; band selector			

Hardware Nomenclature

P — Pan Head Screw			SC — Set Screw		
PS — Pan Head Screw with Spring Washer			E — Retaining Ring (E Washer)		
K — Flat Countersunk Head Screw			W — Washer		
B — Binding Head Screw			SW — Spring Washer		
RK — Oval Countersunk Head Screw			LW — Lock Washer		
T — Truss Head Screw			N — Nut		
R — Round Head Screw					
F — Flat Fillister Head Screw					

— Example —



SONY CORPORATION

2L0510-1

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Printed in Japan

SONY®

NEW

Complete Spare Parts List

Model **TFM-8000W**

U. S. A. MODEL

"IMPORTANT"

When ordering parts, please do not fail to furnish us the following:

1. Part Number
2. Model Name
3. Description as mentioned in this parts list

We are now using EDPS (Electronic Data Processing System) in all the departments concerned, for procurement, inventory control, packing, warehousing, etc. Your orders are processed mainly from the PART NUMBERS referred by you. Incorrect part numbers, therefore, will result in incorrect parts shipment. To assure prompt shipment of correct parts, your cooperation will be appreciated.

NOTE:

Prices are subject to change without notice.

SONY CORPORATION

COMPLETE SPARE PARTS LIST FOR TFM-8000W

(USA Model)

JULY, 1972

<u>Part No.</u>	<u>Description</u>	<u>Unit Price</u>
<u>A. MECHANICAL PARTS</u>		
X-38460-01-0	Mounting Plate Ass'y, telescopic antenna -----	\$0.05
X-38460-02-0	Terminal Ass'y, AM EXT ANT -----	0.12
X-38460-81-0	Cabinet Ass'y, front; including -----	4.38
1-518-095-00	Lamp, dial -----	0.08
3-846-011-00	Transparent Cover, dial -----	0.25
3-846-023-00	Emblem, "SONY AC/BATTERY" -----	0.05
3-846-024-00	Cushion, grille -----	0.15
3-846-038-00	Ornamental Plate, front grille -----	0.40
3-846-039-00	Panel, control -----	0.10
3-846-040-00	Plate, band indicator -----	0.04
X-38460-82-0	Battery Lid Ass'y; including -----	0.67
X-38460-03-0	Time Table Ass'y -----	0.24
3-846-025-00	Cushion, battery lid -----	0.03
X-38460-83-0	Dial Pointer Ass'y -----	0.15
X-38460-84-0	Dial Scale Ass'y; including -----	0.35
3-846-030-00	Guide, dial pointer -----	0.06
X-38460-85-0	Carrying Handle Ass'y; including -----	1.50
3-846-012-00	Handle, carrying; upper -----	0.11
3-846-013-00	Handle, carrying; lower -----	0.11
3-846-032-00	Reinforcement Plate, carrying handle -----	0.02
3-846-037-00	Side Plate, carrying handle -----	0.40
X-38460-86-0	Knob Ass'y, tuning -----	0.20
X-38460-87-0	Cabinet Ass'y, rear; including -----	3.80
X-38460-85-0	Carrying Handle Ass'y -----	1.50
3-827-209-00	Contact Spring, battery positive -----	0.02
3-832-767-00	Contact Spring, battery negative -----	0.03
3-846-027-00	Cushion -----	0.02
3-846-042-00	Label, CAUTION -----	0.02
3-427-542-00	Stopper -----	0.02
3-701-413-01	Screw, self-tapping; P 3 x 45 -----	0.02
3-820-617-00	Bushing, rubber -----	0.02
3-826-136-00	Fly Wheel -----	0.28
3-827-017-00	Pulley -----	0.01
3-827-157-00	Holder, AM ferrite bar antenna -----	0.01
3-823-351-00	Spacer -----	0.01

<u>Part No.</u>	<u>Description</u>	<u>Unit Price</u>
3-829-738-00	Bearing, tuning shaft -----	\$0.02
3-832-737-00	Collar, flange -----	0.02
3-836-534-00	Dust Cover, toggle switch -----	0.01
3-837-172-00	Spring, dial drum -----	0.02
3-837-244-00	Stand, power transformer -----	0.02
3-838-329-00	Spring, BATTERY button and LIGHT button -----	0.01
3-840-975-00	Holder, speaker -----	0.02
3-846-008-00	Chassis -----	0.56
3-846-014-00	Drum, dial -----	0.05
3-846-016-00	Knob, band selector -----	0.11
3-846-017-00	Knob; VOLUME, TONE and FINE TUNING controls -----	0.09
3-846-018-01	Button, LIGHT -----	0.02
3-846-018-11	Button, BATTERY -----	0.02
3-846-020-00	Lever, selector A -----	0.02
3-846-021-00	Lever, selector B -----	0.02
3-846-022-00	Shaft, band selector -----	0.04
3-846-026-00	Cushion, TUNING METER -----	0.02
3-846-028-00	Holder, power transformer -----	0.03
3-846-029-00	Holder, AFC and SQUELCH switches -----	0.03
3-846-033-00	Holder, POWER switch -----	0.03
3-846-034-00	Spring, selector A lever -----	0.02
3-846-035-00	Plate, shield -----	0.05
3-846-036-00	Shaft, tuning -----	0.10
3-846-047-00	Plate, shield -----	0.02
3-846-048-00	Insulator -----	0.01
3-846-049-00	Lead Pin -----	0.01
3-846-050-00	Insulating Plate, power transformer -----	0.02
3-846-051-00	Cushion, band selector knob -----	0.01
3-846-052-00	Cushion -----	0.01
3-846-053-00	Cushion, tuning capacitor -----	0.02
3-846-054-00	Cushion, dial drum -----	0.01

<u>Part No.</u>	<u>Description</u>	<u>Unit Price</u>
<u>B. SCREWS, NUTS, WASHERS AND MISCELLANEOUS</u>		
7-621-259-25	Screw, machine; P 2.6 x 4 -----	\$0.09/100
7-623-107-22	Washer, plain; 3 mm dia -----	0.10/100
7-623-610-00	Eyelet; 1.5 mm dia, 2.5 mm long -----	0.06/100
7-624-108-05	Retaining Ring; E-4 -----	0.44/100
7-625-104-70	Rivet; 1.4 mm dia, 7 mm long -----	0.15/100
7-633-120-52	Cord, dial; 0.25 mm dia -----	0.02/m
7-682-548-01	Screw, machine; B 3 x 8 -----	0.10/100
7-682-961-01	Screw, machine; PSW 4 x 8 -----	0.73/100
7-683-240-31	Screw, set; 3 x 6 -----	1.72/100
7-685-134-01	Screw, self-tapping; P 2.6 x 8 -----	0.28/100
7-685-145-01	Screw, self-tapping; P 3 x 6 -----	0.23/100
7-685-145-06	Screw, self-tapping; P 3 x 6 -----	0.23/100
7-685-146-01	Screw, self-tapping; P 3 x 8 -----	0.23/100
7-685-147-01	Screw, self-tapping; P 3 x 10 -----	0.23/100
7-685-148-01	Screw, self-tapping; P 3 x 12 -----	0.25/100
7-685-151-01	Screw, self-tapping; P 3 x 20 -----	0.37/100
7-682-159-01	Screw, machine; P 4 x 5 -----	1.73/100
7-685-151-06	Screw, self-tapping; P 3 x 20 -----	0.37/100

C. ELECTRICAL PARTS

Mounted Circuit Boards

X-38460-23-0	Mounted Circuit Board, PSB/FM front end -----	4.90
X-38460-61-0	Mounted Circuit Board, main circuit -----	15.10
X-38460-62-0	Mounted Circuit Board, AFC and SQUELCH switches ---	0.65
X-38460-63-0	Mounted Circuit Board, POWER switch -----	0.36

Ref. No.	Part No.	Description	Unit Price
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Semiconductors

Q101		Transistor 2SK23A -----	\$0.43
Q102		Transistor 2SC710 -----	0.12
Q103		Transistor 2SC668 -----	0.16
Q201		Transistor 2SC710 -----	0.12
Q202		Transistor 2SC710 -----	0.12
Q203		Transistor 2SC710 -----	0.12
Q204		Transistor 2SC710 -----	0.12
Q205		Transistor 2SC710 -----	0.12
Q206		Transistor 2SC710 -----	0.12
Q207		Transistor 2SC710 -----	0.12
Q208		Transistor 2SC633A -----	0.14
Q209		Transistor 2SC633A -----	0.14
Q210		Transistor 2SC1209 -----	0.20
Q211		Transistor 2SC1209 -----	0.20
Q212		Transistor 2SC678 -----	0.18
Q213		Transistor 2SB136 -----	0.12
Q214		Transistor 2SA678 -----	0.18
D101		Diode 2SC710 -----	0.12
D201		Diode 1T261 -----	0.05
D202		Diode 1T261 -----	0.05
D203		Diode 1T261 -----	0.05
D204		Diode 1T23 -----	0.05
D205		Diode 1S1555 -----	0.07
D206		Diode 1T23 -----	0.05
D207		-	-
D208		Diode 1S1209 -----	0.08
D209		Diode 10D2 -----	0.11
D210		Diode 10D2 -----	0.11
D211		Diode 2SB383 -----	0.19
Th201	1-800-192-11	Thermistor CS-120 -----	0.04

Coils and Transformers

L101	1-401-522-00	Coil, FM ant -----	0.07
L102	1-420-813-00	Coil, PSB ant -----	0.02
L103	1-407-182-11	2.2 μ H, micro inductor -----	0.05
L104	1-401-522-00	Coil, FM rf -----	0.07

<u>Ref.</u> <u>No.</u>	<u>Part No.</u>	<u>Description</u>	<u>Unit</u> <u>Price</u>
L105	1-420-813-00	Coil, PSB rf -----	\$0.02
L106	1-401-454-00	Coil, i-f trap -----	0.04
L107	1-405-563-00	Coil, PSB osc -----	0.07
L108	1-405-562-00	Coil, FM osc -----	0.07
L109	1-407-182-11	2.2 μ H, micro inductor -----	0.05
L110	1-407-182-11	2.2 μ H, micro inductor -----	0.05
L201	1-407-163-11	33 μ H, micro inductor -----	0.03
L202	1-401-201-00	Coil, low pass filter -----	0.03
L203	1-407-175-11	330 μ H, micro inductor -----	0.03
L204	1-401-524-00	Coil, SW3 ant -----	0.11
L205	1-401-523-00	Coil, SW2 ant -----	0.11
L206	1-401-525-00	Coil, SW1 ant -----	0.11
L207	1-401-521-00	Coil, MW ferrite bar antenna -----	0.22
L208	1-405-561-00	Coil, SW3 osc -----	0.11
L209	1-405-560-00	Coil, SW2 osc -----	0.11
L210	1-405-559-00	Coil, SW1 osc -----	0.11
L211	1-405-558-00	Coil, MW osc -----	0.11
L212	1-407-184-11	3.3 μ H, micro inductor -----	0.05
L213	1-407-169-11	100 μ H, micro inductor -----	0.03
CFT	1-403-165-15	Ceramic Filter Transformer, AM i-f -----	0.30
CF201	1-527-184-00	Ceramic Filter, FM i-f -----	0.12
CF202	1-527-184-00	Ceramic Filter, FM i-f -----	0.12
CF203	1-403-154-00	Ceramic Filter -----	0.10
IFT A201	1-403-137-00	Transformer, MW i-f -----	0.11
IFT F101	1-403-242-31	Transformer, FM i-f -----	0.14
IFT F201	1-403-287-11	Transformer, FM discriminator -----	0.13
IFT F202	1-403-287-21	Transformer, FM discriminator -----	0.13
T1	1-423-077-00	Transformer, driver -----	0.19
T2	1-427-306-00	Transformer, output -----	0.25
T3	1-441-954-00	Transformer, power -----	0.82

Capacitors

All fixed capacitors are ceramic type expressed in μ F except as specified with p, which means μ pF.

C101	1-102-940-11	3 p -----	0.02
C102	-	-	-
C103	1-102-939-11	2 p -----	0.02
C104	1-102-940-11	3 p -----	0.02

Ref. No.	Part No.	Description	Unit Price
C105	1-102-100-11	0.0022 -----	\$0.02
C106	1-102-942-11	5 p -----	0.02
C107	1-101-939-11	2 p -----	0.02
C108	1-102-938-11	1 p -----	0.02
C109	1-101-938-11	1 p -----	0.02
C110	1-102-832-11	330 p -----	0.02
C111	-	-	-
C112	1-101-923-11	0.01 -----	0.02
C113	1-101-923-11	0.01 -----	0.02
C114	1-102-743-11	3 p -----	0.02
C115	1-101-999-11	10 p -----	0.02
C116	1-102-100-11	0.0022 -----	0.02
C117	1-102-801-11	20 p -----	0.02
C118	1-102-947-11	10 p -----	0.02
C119	1-101-999-11	10 p -----	0.02
C120	1-127-019-11	0.1 10 V solid aluminum -----	0.06
C121	1-102-942-11	5 p -----	0.02
C122	1-101-923-11	0.01 -----	0.02
C123	1-101-923-11	0.01 -----	0.02
C201	1-101-923-11	0.01 -----	0.02
C202	1-102-947-11	10 p -----	0.02
C203	1-101-118-11	0.01 -----	0.02
C204	-	-	-
C205	1-101-923-11	0.01 -----	0.02
C206	-	-	-
C207	1-101-923-11	0.01 -----	0.02
C208	1-102-117-11	820 p -----	0.02
C209	1-121-413-11	100 6.3 V electrolytic -----	0.05
C210	1-101-923-11	0.01 -----	0.02
C211	1-101-923-11	0.01 -----	0.02
C212	1-127-019-11	0.1 10 V solid aluminum -----	0.06
C213	1-101-923-11	0.01 -----	0.02
C214	1-102-935-11	2 p -----	0.02
C215	1-127-021-11	0.33 10 V solid aluminum -----	0.06
C216	1-121-392-11	3.3 25 V electrolytic -----	0.04
C217	1-101-924-11	0.022 -----	0.02
C218	1-121-413-11	100 6.3 V electrolytic -----	0.05
C219	1-101-923-11	0.01 -----	0.02
C220	-	-	-
C221	-	-	-
C222	1-105-827-12	0.0033 mylar -----	0.02
C223	1-121-413-11	100 6.3 V electrolytic -----	0.05

6/11 (TFM-8000W USA Model)

(R8-141)

Ref. No.	Part No.	Description	Unit Price
C224	1-105-833-12	0.01 mylar -----	\$0.02
C225	1-105-839-12	0.033 mylar -----	0.03
C226	-	-	-
C227	-	-	-
C228	-	-	-
C229	1-105-827-12	0.0033 mylar -----	0.02
C230	1-121-651-11	10 16 V electrolytic -----	0.04
C231	1-121-391-11	1 50 V electrolytic -----	0.03
C232	1-105-837-12	0.022 mylar -----	0.02
C233	1-101-923-11	0.01 -----	0.02
C234	1-101-886-11	62 p -----	0.02
C235	1-102-965-11	39 p -----	0.02
C236	1-102-951-11	15 p -----	0.02
C237	1-102-947-11	10 p -----	0.02
C238	1-102-958-11	20 p -----	0.02
C239	-	-	-
C240	1-102-729-11	51 p -----	0.02
C241	1-103-636-11	3,000 p polystyrene -----	0.04
C242	1-102-802-11	24 p -----	0.02
C243	1-103-631-11	1,800 p polystyrene -----	0.04
C244	1-102-802-11	24 p -----	0.02
C245	1-107-232-11	390 p silvered mica -----	0.02
C246	1-101-997-11	5 p -----	0.02
C247	1-102-951-11	15 p -----	0.02
C248	1-102-958-11	20 p -----	0.02
C249	-	-	-
C250	-	-	-
C251	-	-	-
C252	1-102-941-11	4 p -----	0.02
C253	-	-	-
C254	1-121-391-11	1 50 V electrolytic -----	0.03
C255	1-105-841-12	0.047 mylar -----	0.03
C256	1-127-019-11	0.1 10 V solid aluminum -----	0.06
C257	-	-	-
C258	-	-	-
C259	1-127-021-11	0.33 10 V solid aluminum -----	0.06
C260	1-121-419-11	220 6.3 V electrolytic -----	0.06
C261	1-121-413-11	100 6.3 V electrolytic -----	0.05
C262	1-121-736-11	1,000 10 V electrolytic -----	0.12
C263	1-105-839-12	0.033 mylar -----	0.03
C264	1-121-726-11	0.47 50 V electrolytic -----	0.03
C265	1-121-419-11	220 6.3 V electrolytic -----	0.06

Ref. No.	Part No.	Description	Unit Price
C266	1-121-659-11	2,200 10 V electrolytic -----	\$0.15
C267	1-105-833-12	0.01 mylar -----	0.02
C268	1-105-833-12	0.01 mylar -----	0.02
C269	1-101-924-11	0.022 -----	0.02
C270	-	-	-
C271	1-121-413-11	100 6.3 V electrolytic -----	0.05
C272	1-102-801-11	20 p -----	0.02
C273	1-102-975-11	100 p -----	0.02
C274	1-101-923-11	0.01 -----	0.02
C275	1-107-136-11	160 p silvered mica -----	0.02
C276	1-127-018-11	0.047 10 V solid aluminum -----	0.06
CT101	1-141-097-21	Capacitor, trimmer -----	0.05
CT102	1-141-097-21	Capacitor, trimmer -----	0.05
CT103	1-141-097-21	Capacitor, trimmer -----	0.05
CT104	1-141-097-21	Capacitor, trimmer -----	0.05
CT105	1-141-097-21	Capacitor, trimmer -----	0.05
CT106	1-141-097-21	Capacitor, trimmer -----	0.05
CT201-CT202	1-141-011-21	Capacitor, trimmer; 2-unit -----	0.07
CT203-CT204	1-141-011-21	Capacitor, trimmer; 2-unit -----	0.07
CT205-CT206	1-141-011-21	Capacitor, trimmer; 2-unit -----	0.07
CT207-CT208	1-141-011-21	Capacitor, trimmer; 2-unit -----	0.07
CV101-CV103 (CV202-CV203	1-151-257-00	Capacitor, tuning -----	1.27
CV201	1-151-258-00	Capacitor, FINE TUNING -----	0.21

Resistors

All fixed resistors are in Ω ,
+5 %, 1/4 W carbon film type
unless otherwise specified.

R101	1-242-721-11	100 k -----	0.02
R102	1-242-673-11	1 k -----	0.02
R103	1-242-721-11	100 k -----	0.02
R104	1-244-671-11	820 -----	0.02
R105	1-242-721-11	100 k -----	0.02
R106	1-244-673-11	1 k -----	0.02
R201	1-242-673-11	1 k -----	0.02
R202	1-242-673-11	1 k -----	0.02

<u>Ref.</u> <u>No.</u>	<u>Part No.</u>	<u>Description</u>	<u>Unit</u> <u>Price</u>
R203	1-244-705-11	22 k -----	\$0.02
R204	1-242-667-11	560 -----	0.02
R205	1-244-665-11	470 -----	0.02
R206	1-242-673-11	1 k -----	0.02
R207	1-244-721-11	100 k -----	0.02
R208	1-242-673-11	1 k -----	0.02
R209	1-242-665-11	470 -----	0.02
R210	1-242-673-11	1 k -----	0.02
R211	1-244-697-11	10 k -----	0.02
R212	-	-	-
R213	1-242-661-11	330 -----	0.02
R214	1-242-680-11	2 k -----	0.02
R215	1-244-709-11	33 k -----	0.02
R216	1-242-697-11	10 k -----	0.02
R217	1-242-725-11	150 k -----	0.02
R218	1-244-673-11	1 k -----	0.02
R219	1-242-677-11	1.5 k -----	0.02
R220	1-242-649-11	100 -----	0.02
R221	1-242-721-11	100 k -----	0.02
R222	1-244-665-11	470 -----	0.02
R223	1-242-649-11	100 -----	0.02
R224	1-244-673-11	1 k -----	0.02
R225	1-242-721-11	100 k -----	0.02
R226	1-242-673-11	1 k -----	0.02
R227	1-242-673-11	1 k -----	0.02
R228	1-244-691-11	5.6 k -----	0.02
R229	1-242-681-11	2.2 k -----	0.02
R230	1-244-689-11	4.7 k -----	0.02
R231	1-242-697-11	10 k -----	0.02
R232	1-242-694-11	7.5 k -----	0.02
R233	1-244-685-11	3.3 k -----	0.02
R234	1-242-679-11	1.8 k -----	0.02
R235	1-242-685-11	3.3 k -----	0.02
R236	1-242-673-11	1 k -----	0.02
R237	1-242-685-11	3.3 k -----	0.02
R238	1-242-704-11	20 k -----	0.02
R239	1-242-713-11	47 k -----	0.02
R240	1-244-681-11	2.2 k -----	0.02
R241	1-242-661-11	330 -----	0.02
R242	1-244-701-11	15 k -----	0.02
R243	1-244-661-11	330 -----	0.02
R244	1-242-656-11	200 -----	0.02
R245	1-244-659-11	270 -----	0.02

<u>Ref.</u> <u>No.</u>	<u>Part No.</u>	<u>Description</u>	<u>Unit</u> <u>Price</u>
R246	1-242-666-11	510 -----	\$0.02
R247	1-242-639-11	39 -----	0.02
R248	1-242-649-11	100 -----	0.02
R249	1-242-653-11	150 -----	0.02
R250	1-242-661-11	330 -----	0.02
R251	1-242-691-11	5.6 k -----	0.02
R252	1-242-691-11	5.6 k -----	0.02
R253	1-242-715-11	56 k -----	0.02
R254	1-242-673-11	1 k -----	0.02
R255	1-242-671-11	820 -----	0.02
R256	1-242-721-11	100 k -----	0.02
R257	1-242-693-11	6.8 k -----	0.02
R258	1-244-680-11	2 k -----	0.02
R259	1-242-637-11	33 -----	0.02
R260	1-244-680-11	2 k -----	0.02
R261	1-244-670-11	750 -----	0.02
R262	1-242-661-11	330 -----	0.02
R263	1-242-637-11	33 -----	0.02
R264	1-242-661-11	330 -----	0.02
R265	1-242-649-11	100 -----	0.02
R266	1-244-663-11	390 -----	0.02
R267	1-242-671-11	820 -----	0.02
R268	1-242-673-11	1 k -----	0.02
R269	1-244-801-11	1 -----	0.02
R270	1-244-657-11	220 -----	0.02
R271	1-244-691-11	5.6 k -----	0.02
R272	1-242-625-11	10 -----	0.02
R273	1-242-685-11	3.3 k -----	0.02
R274	1-242-667-11	560 -----	0.02
R275	1-202-647-11	1.2 M 1/2 W composition -----	0.02
R276	1-242-673-11	1 k -----	0.02
R277	1-244-649-11	100 -----	0.02
R278	1-244-697-11	10 k -----	0.02
R279	1-244-615-11	3.9 -----	0.02
R280	1-244-713-11	47 k -----	0.02
VR1	1-224-071-00	Resistor, variable, 50 k (D); VOLUME control-	0.14
VR2	1-224-072-00	Resistor, variable, 5 k (D); TONE control ---	0.14

<u>Ref.</u> <u>No.</u>	<u>Part No.</u>	<u>Description</u>	<u>Unit</u> <u>Price</u>
<u>Miscellaneous</u>			
TEL ANT	1-501-129-00	Antenna, telescopic -----	\$0.89
SP	1-502-407-11	Speaker, 8 Ω -----	0.76
J1-J2	1-507-174-22	Jack, 2-unit; record out and earphone -----	0.10
S1	1-516-156-21	Switch, toggle; POWER -----	0.17
S2	1-516-158-00	Switch, leaf; LIGHT -----	0.10
S3	1-516-156-11	Switch, toggle; SQUELCH -----	0.17
S4	1-516-158-00	Switch, leaf; BATTERY -----	0.10
S5	1-516-156-11	Switch, toggle; AFC -----	0.17
S6	1-514-453-21	Switch, slide; PSB/FM band selector -----	0.24
S7	1-516-157-00	Switch, rotary-slide; band selector -----	0.88
PL1	1-518-095-00	Lamp, dial -----	0.08
PL2	1-518-095-00	Lamp, dial -----	0.08
ME	1-520-135-00	TUNING METER -----	1.00
F1	1-532-301-00	Fuse, 0.16 A -----	0.61
	1-534-558-11	Ac Cord, with plugs -----	0.39
	1-582-018-11	Printed Circuit Board, PSB/FM front end -----	0.14
	1-582-021-11	Printed Circuit Board, main circuit -----	0.72

D. ATTACHED ITEMS

X-38402-03-0	Switch Guide Ass'y -----	0.24
1-504-034-22	Earphone, ME-20A -----	0.21
1-528-001-11	Battery, size "D" -----	
3-701-261-00	Bag, polyethylene -----	0.04
3-846-043-00	Cushion, top -----	0.16
3-846-044-00	Cushion, bottom -----	0.16
3-846-045-00	Carton, individual -----	0.29
3-993-076-00	Tag, eye catcher -----	0.02
3-994-390-00	Card, warranty -----	0.01
3-995-652-21	Manual, instruction -----	0.24
3-998-901-00	Label, serial number -----	0.01
4-490-014-00	List, service station -----	0.03